M 34 H (86)-1

CURRENT INDUSTRIAL REPORTS

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Closures for Containers

U.S. Department of Commerce
BUREAU OF THE CENSUS

FIRST QUARTER 1986

M34H(86)-1
Issued June 1986

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of closures for containers. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information appears on page 4.

Beginning in 1986, this survey will be conducted quarterly rather than on a monthly basis.

Table 1. PRODUCERS' QUANTITY OF SHIPMENTS OF CLOSURES, BY TYPE OF MATERIAL: 1986 AND 1985

(Data in thousands of units unless otherwise indicated)

Quarter and year	Metal and metal composite[1]	Plastic	Plastic child resistant	Closures for pressure containers (1,000 gross)		
				Metal crowns	Other metal	Plastic
1986						
First quarter	3,915,118	5,821,202	710,930	43,864	21,167	4,347
1985[2]						
Fourth quarter	3,392,405	4,877,821	668,248	32,526	17,516	2,517
Third quarter	3,993,036	4,988,151	686,815	45,031	25,129	4,188
Second quarter	3,515,968	5,319,946	799,422	46,468	25,271	3,147
First quarter	3,850,316	5,346,219	818,217	43,872	20,948	2,250

Note: December data will be revised in the 1985 annual summary.

[1] Excludes home canning closures.
[2] In order to be consistent with the current year, monthly figures prior to 1986 were added to show quarterly data.

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Table 2. SHIPMENTS OF CLOSURES FOR CONTAINERS, BY TYPE

(Value in thousands of dollars)

Product code	Product description	Unit of measure	Number of companies	First quarter 1986		Fourth quarter 1985	
				Quantity	Value	Quantity	Value
34661 01	Metal and metal composite closures	M units	25	3,915,118	107,910	3,392,405	104,420
	By container type:						
	Glass	do	20	3,361,736	(X)	3,097,791	(X)
	Metal, including metal tubes	do	7	287,753	(X)	72,908	(X)
	Plastic, including vials and tubes	do	9	265,629	(X)	221,706	(X)
	By function:						
	Vacuum (continuous thread and lug type)	do	6	2,462,479	(X)	1,899,537	(X)
	Nonvacuum	do	(NA)	1,452,639	(X)	1,492,868	(X)
	By type of connection:						
	Lug type	do	5	141,858	(X)	151,009	(X)
	Continuous thread (CT)	do	22	1,310,781	(X)	1,341,859	(X)
	Not specified by type	do	(NA)	-	(X)	-	(X)
	By end use:						
	Food	do	7	404,066	(X)	544,935	(X)
	Toiletry and cosmetics	do	7	74,957	(X)	96,246	(X)
	Medicinal and health	do	8	293,527	(X)	272,418	(X)
	Distilled spirits and wine	do	8	275,757	(X)	150,719	(X)
	Chemicals	do	6	60,980	(X)	143,904	(X)
	Other	do	(NA)	343,352	(X)	284,646	(X)
	By size:						
	38mm and smaller	do	18	897,886	(X)	649,406	(X)
	Over 38mm excluding styles 445, 450, and 460	do	13	282,479	(X)	489,402	(X)
	Styles 445, 450, and 460	do	7	268,880	(X)	351,091	(X)
	Not specified by size	do	(NA)	3,394	(X)	2,969	(X)
	By type of metal:						
34661 12	Aluminum	do	8	558,178	(X)	359,090	(X)
34661 32	Tin mill	do	14	886,687	(X)	1,131,628	(X)
	Not specified by metal	do	(NA)	7,774	(X)	2,150	(X)
30790 60	Plastic closures	do	42	5,821,202	117,626	4,877,821	93,663
	By container type:						
	Glass	do	16	1,114,326	(X)	918,756	(X)
	Metal, including metal tubes	do	9	631,510	(X)	554,920	(X)
	Plastic, including vials and tubes	do	34	4,014,382	(X)	3,360,346	(X)
	Not specified by type	do	(NA)	60,984	(X)	43,799	(X)
	By function:						
	Shakers, spouts, and dispenser tops, except dispenser fitments and overcaps	do	15	1,029,311	(X)	1,075,684	(X)
	All other closures	do	(NA)	4,791,891	(X)	3,802,137	(X)
	By end use:						
	Food	do	22	1,642,961	(X)	1,370,599	(X)
	Toiletry and cosmetics	do	26	1,887,630	(X)	1,117,798	(X)
	Medicinal and health:						
	Prescription drugs	do	6	73,671	(X)	111,871	(X)
	All other, including nonprescription drugs	do	12	344,989	(X)	246,173	(X)
	Distilled spirits and wine	do	7	302,292	(X)	352,509	(X)
	Chemicals	do	11	563,283	(X)	460,690	(X)
	Other, including where end use is unknown	do	(NA)	1,006,376	(X)	1,218,181	(X)
	By type of plastic:						
30790 67	Thermosetting	do	11	264,235	(X)	294,357	(X)
30790 68	Thermoplastic	do	35	5,269,211	(X)	4,391,419	(X)
	Not specified by plastic	do	(NA)	287,756	(X)	192,045	(X)
30790 69	Plastic child-resistant closures	do	18	710,930	26,962	668,248	19,444
	Prescription drugs	do	8	165,423	(X)	167,780	(X)
	All other, including nonprescription drugs	do	16	545,507	(X)	500,468	(X)
	Not specified by end use	do	(NA)	-	(X)	-	(X)
34661 82	Metal and metal composite home canning closures	M gross	3	(D)	(D)	(D)	(D)
	Closures for glass, plastic, or metal pressure containers	do	11	69,378	65,610	52,559	51,587
	Metal crowns (convenience and conventional type)	do	(NA)	43,864	29,060	32,526	21,170
34662 15	Soft drink	do	5	16,240	10,730	12,644	8,673
34662 25	Beer and all other	do	5	27,624	18,330	19,882	12,497
	All other metal closures, including roll-ons:						
	Metal and metal composite	do	(NA)	21,167	29,193	17,516	26,484
34661 84	Soft drink	do	5	19,718	27,029	16,410	24,771
34661 85	Beer and all other	do	5	1,449	2,164	1,106	1,713
30790 70	Plastic	do	5	4,347	7,357	2,517	3,933

Note: Detail may not add to total due to independent rounding.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

Table 3. SHIPMENTS, EXPORTS, AND IMPORTS OF METAL COMMERCIAL CLOSURES AND HOME CANNING CLOSURES: 1986 AND 1985

(Quantity in millions; value in thousands of dollars)

Quarter and year	Manufacturers' shipments[1]		Exports of domestic merchandise		Percent exports to manufacturers' shipments (value)	Imports for consumption[1,4]		Apparent consumption[6] (value)	Percent imports to apparent consumption (value)
	Quantity	Value (f.o.b. plant)	Value at port[1,2]	Estimated producers' value[3]		Quantity	Value[5]		
1986[7]									
First quarter	13,279	166,163	5,399	5,235	3.2	1,518	4,036	164,964	2.4
1985[7]									
Total	51,724	690,885	24,837	24,087	3.5	5,259	14,230	681,028	2.1
Fourth quarter	10,599	152,074	7,783	7,548	5.0	1,578	3,094	147,620	2.1
Third quarter	14,096	183,458	4,425	4,291	2.3	1,474	3,617	182,784	2.0
Second quarter	13,846	174,643	6,791	6,586	3.8	1,303	4,047	172,104	2.4
First quarter	13,183	180,710	5,838	5,662	3.1	904	3,472	178,520	1.9

(NA) Not available.

[1] For comparison of SIC-based product codes with Schedule B export numbers and TSUSA import numbers, see table 5.
[2] Source: Bureau of the Census report EM 546, U.S. Exports (Schedule B export numbers 652.6510, crowns for pressure containers and 652.6530, other metal closures).
[3] These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the value to an approximation of the producers' value of the exported goods. Current adjustment factors are based on data for 1983 which are published in Origin of Exports of Manufactured Products, M83(AS)-5, appendix B. The 1983 derived adjustment factor for this report is 0.9698.
[4] Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports (TSUSA number 652.6500, metal crowns and bottle caps).
[5] Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.
[6] Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.
[7] Home canning data are excluded from manufacturers' shipments to avoid disclosures of individual company operations.

Table 4. SHIPMENTS, EXPORTS, AND IMPORTS OF SELECTED CLOSURES FOR CONTAINERS, BY TYPE: FIRST QUARTER 1986

(Quantity in millions; value in thousands of dollars)

Product code	Product description	Manufacturers' shipments[1]		Exports of domestic merchandise		Percent exports to manufacturers' shipments (value)	Imports for consumption[1,4]		Apparent consumption[6] (value)	Percent imports to apparent consumption (value)
		Quantity	Value (f.o.b. plant)	Value at port[1,2]	Estimated producers' value[3]		Quantity	Value[5]		
	Metal commercial closures and home canning closures	13,279	166,163	5,399	5,235	3.2	1,518	4,036	164,964	2.4
34661 03, 43,44	Closures for glass containers except crowns and child-resistant types									
34661 82	Home canning closures[7]									
34661 47, 56,59	Closures for metal cans and metal tubes; closures for plastic containers, vials, and tubes; child-resistant closures	3,915	107,910	4,917	4,768	3.5	1,518	4,036	164,964	2.4
34661 83	Metal closures other than crowns for pressure containers	3,048	29,193							
34662 16, 17,21,22	Crowns for pressure containers	6,316	29,060	482	467	1.6				

See footnotes at end of table 3.

Table 5. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION-BASED CODES WITH SCHEDULE B EXPORT NUMBERS AND TSUSA IMPORT NUMBERS: 1986

Product code	Product description	Export number	Product description	Import number	Product description
	Metal commercial closures and home canning closures:		Crown corks and bottle caps, of base metal:		
34661 01	Metal and metal composite closures	652.6530			
34661 82	Home canning closures				
34461 84, 34461 85	Closures other than crowns for pressure containers (roll-ons, snip tabs, tear off, and flip caps)		Other	652.6500	Crown corks and bottle caps, of base metal
34662 15, 34662 25	Crowns for pressure containers	652.6510	Crowns		

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers manufacturers of closures for containers and crowns for pressure containers. Both commercial and home canning closures are included. Spray valves, seals, dispenser tops, aerosol valves, and other nonstandard closures are excluded.

Survey Methodology. The statistics in this publication were collected by mail on Bureau of the Census quarterly Form MQ34H, Closures for Containers. The panel for this survey consists of all known producers of the products covered, approximately 75 companies.

Survey Error. Figures for the current quarter may include estimates for panel members for which reports were not received in time for tabulation. Such missing figures are "imputed" based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 25 percent for any one data cell. Figures with imputation rates greater than 25 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 25 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous quarters may be revised as the result of corrected data from respondents, including the receipt of late reports for which imputations were made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Adjustment for Price Change. All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Shipments. Includes all quantities physically shipped during the quarter, whether shipped for commercial sale or for own use, or shipped to subsidiary, parent, or other affiliated companies. Products bought and resold without further manufacture are excluded.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output*—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

- *Exports*—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

  Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- *Imports*—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for indivildual import shipments valued at not more than $1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

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A annual Current Industrial Report also is published in this series. The annual report summaries quarterly figures and incorporates known revisions for both current and previous year.

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IM145 X	Monthly	*U.S. Imports for Consumption and General Imports*

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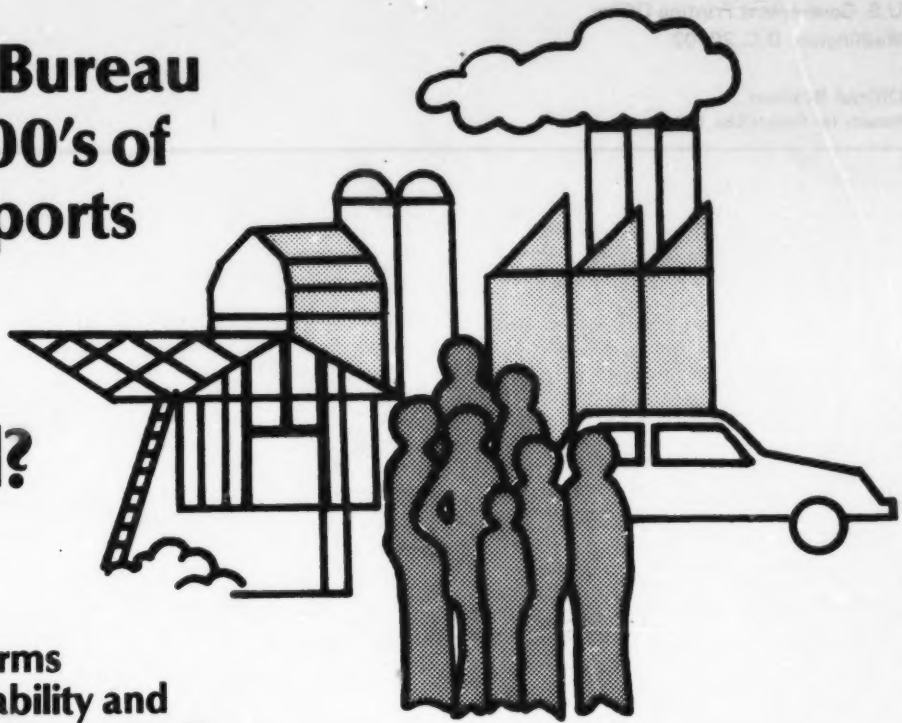

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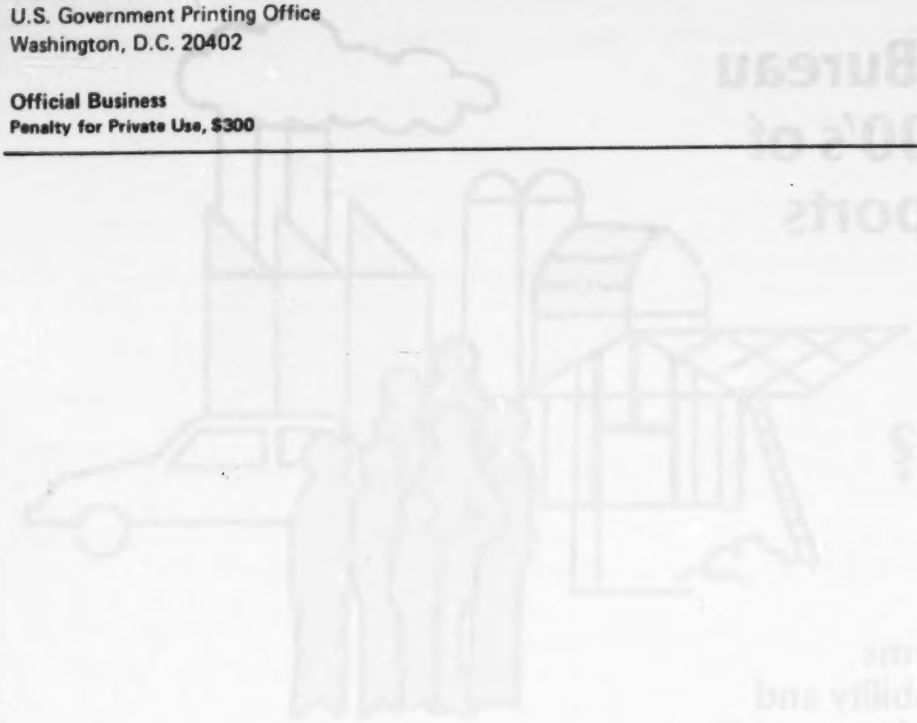

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CURRENT INDUSTRIAL REPORTS

Closures for Containers

SECOND QUARTER 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

MQ34H(86)-2
Issued September 1986

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of closures for containers. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information appears in the first quarter publication MQ34H(86)-1, issued June 1986.

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Table 1. PRODUCERS' QUANTITY OF SHIPMENTS OF CLOSURES, BY TYPE OF MATERIAL: 1986 AND 1985

(Data in thousands of units unless otherwise indicated)

Quarter and year	Metal and metal composite[1]	Plastic	Plastic child resistant	Closures for pressure containers (1,000 gross)		
				Metal crowns	Other metal	Plastic
1986						
Second quarter	3,965,694	r5,024,659	751,253	r51,049	27,127	r6,138
First quarter	3,945,994	r5,350,993	688,975	r46,089	21,167	r3,907
1985[2]						
Fourth quarter	3,748,773	5,248,831	614,578	35,517	18,647	3,689
Third quarter	4,286,861	5,264,220	621,501	47,388	26,314	5,871
Second quarter	3,831,366	5,544,738	694,716	48,920	26,182	4,187
First quarter	3,774,601	5,607,400	682,761	45,016	21,683	2,891

rRevised by 5 percent or more from previously published figures.

[1]Excludes home canning closures.
[2]In order to be consistent with the current year, monthly figures prior to 1986 were added to show quarterly data.

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Table 2. SHIPMENTS OF CLOSURES FOR CONTAINERS, BY TYPE

(Value in thousands of dollars)

Product code	Product description	Unit of measure	Number of companies	Second quarter 1986		First quarter 1986	
				Quantity	Value	Quantity	Value
34661 01	Metal and metal composite closures	M units	25	3,965,694	109,859	3,945,994	107,759
	By container type:						
	Glass	..do	21	3,345,100	(X)	3,392,612	(X)
	Metal, including metal tubes	..do	7	376,045	(X)	287,753	(X)
	Plastic, including vials and tubes	..do	9	244,549	(X)	265,629	(X)
	By function:						
	Vacuum (continuous thread and lug type)	..do	6	2,427,061	(X)	2,471,502	(X)
	Nonvacuum	..do	(NA)	1,538,633	(X)	1,474,492	(X)
	By type of connection:						
	Lug type	..do	5	149,988	(X)	141,858	(X)
	Continuous thread (CT)	..do	22	1,388,645	(X)	1,332,634	(X)
	Not specified by type	..do	(NA)	-	(X)	-	(X)
	By end use:						
	Food	..do	7	359,413	(X)	387,313	(X)
	Toiletry and cosmetics	..do	7	89,589	(X)	74,957	(X)
	Medicinal and health	..do	7	259,069	(X)	r293,527	(X)
	Distilled spirits and wine	..do	8	374,613	(X)	r297,610	(X)
	Chemicals	..do	6	44,043	(X)	60,980	(X)
	Other	..do	(NA)	411,906	(X)	360,105	(X)
	By size:						
	38mm and smaller	..do	17	934,938	(X)	919,739	(X)
	Over 38mm excluding styles 440, 445, 450, and 460	..do	13	268,841	(X)	282,479	(X)
	Styles 445, 450, and 460	..do	6	331,864	(X)	268,880	(X)
	Not specified by size	..do	(NA)	2,990	(X)	3,394	(X)
	By type of metal:						
34661 12	Aluminum	..do	8	607,474	(X)	580,031	(X)
34661 32	Tin mill	..do	14	923,520	(X)	886,687	(X)
	Not specified by metal	..do	(NA)	7,639	(X)	7,774	(X)
30790 60	Plastic closures	..do	38	5,024,659	117,666	r5,350,993	r110,598
	By container type:						
	Glass	..do	15	1,119,610	(X)	r1,391,647	(X)
	Metal, including metal tubes	..do	8	661,304	(X)	r346,753	(X)
	Plastic, including vials and tubes	..do	31	3,211,078	(X)	r3,580,283	(X)
	Not specified by type	..do	(NA)	32,667	(X)	r32,310	(X)
	By function:						
	Shakers, spouts, and dispenser tops, except dispenser fitments and overcaps	..do	16	905,478	(X)	1,057,921	(X)
	All other closures	..do	(NA)	4,119,181	(X)	r4,293,072	(X)
	By end use:						
	Food	..do	21	1,263,683	(X)	r1,291,653	(X)
	Toiletry and cosmetics	..do	25	1,582,503	(X)	r1,762,429	(X)
	Medicinal and health:						
	Prescription drugs	..do	7	56,927	(X)	r82,717	(X)
	All other, including nonprescription drugs	..do	13	389,589	(X)	344,989	(X)
	Distilled spirits and wine	..do	7	245,115	(X)	302,292	(X)
	Chemicals	..do	11	502,491	(X)	563,702	(X)
	Other, including where end use is unknown	..do	(NA)	984,351	(X)	1,003,211	(X)
	By type of plastic:						
30790 67	Thermosetting	..do	10	283,136	(X)	269,259	(X)
30790 68	Thermoplastic	..do	31	4,467,620	(X)	r4,803,594	(X)
	Not specified by plastic	..do	(NA)	273,903	(X)	278,140	(X)
30790 69	Plastic child-resistant closures	..do	16	751,253	28,333	688,975	26,190
	Prescription drugs	..do	7	144,584	(X)	165,423	(X)
	All other, including nonprescription drugs	..do	14	606,669	(X)	523,552	(X)
	Not specified by end use	..do	(NA)	-	(X)	-	(X)
34661 82	Metal and metal composite home canning closures	M gross	3	(D)	(D)	(D)	(D)
	Closures for glass, plastic, or metal pressure containers	..do	10	84,314	79,601	r71,163	63,397
	Metal crowns (convenience and conventional type)	..do	(NA)	51,049	31,392	r46,089	28,615
34662 15	Soft drink	..do	5	19,627	11,961	16,758	10,272
34662 25	Beer and all other	..do	5	31,422	19,431	r29,331	18,373
	All other metal closures, including roll-ons:						
	Metal and metal composite	..do	(NA)	27,127	38,842	21,167	28,704
34661 84	Soft drink	..do	5	25,208	36,134	19,718	26,548
34661 85	Beer and all other	..do	5	1,919	2,708	1,449	2,156
30790 70	Plastic	..do	4	6,138	9,367	r3,907	r6,078

Note: Detail may not add to total due to independent rounding.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. rRevised by 5 percent or more from previously published figures. (X) Not applicable.

Table 3. SHIPMENTS, EXPORTS, AND IMPORTS OF METAL COMMERCIAL CLOSURES AND HOME CANNING CLOSURES: 1986 AND 1985

(Quantity in millions; value in thousands of dollars)

Quarter and year	Manufacturers' shipments[1]		Exports of domestic merchandise		Percent exports to manufacturers' shipments (value)	Imports for consumption[1,4]		Apparent consumption[6] (value)	Percent imports to apparent consumption (value)
	Quantity	Value (f.o.b. plant)	Value at port[1,2]	Estimated producers' value[3]		Quantity	Value[5]		
1986[7]									
Second quarter	15,223	180,093	5,973	5,792	3.2	1,271	4,528	178,829	2.5
First quarter	13,631	165,078	5,399	5,235	3.2	1,518	4,036	163,879	2.5
1985[7]									
Total	54,473	710,872	24,837	24,087	3.4	5,259	14,230	701,015	2.0
Fourth quarter	11,548	171,733	7,783	7,548	4.4	1,578	3,094	167,279	1.8
Third quarter	14,900	187,712	4,425	4,291	2.3	1,474	3,617	187,038	1.9
Second quarter	14,646	180,093	6,791	6,586	3.7	1,303	4,047	177,554	2.3
First quarter	13,379	171,334	5,838	5,662	3.3	904	3,472	169,144	2.1

[1]For comparison of SIC-based product codes with Schedule B export numbers and TSUSA import numbers, see table 5 in the first quarter 1986 report, MQ34H(86)-1, issued June 1986.

[2]Source: Bureau of the Census report EM 546, U.S. Exports (Schedule B export numbers 652.6510, crowns for pressure containers and 652.6530, other metal closures.

[3]These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the value to an approximation of the producers' value of the exported goods. Current adjustment factors are based on data for 1983 which are published in Origin of Exports of Manufactured Products, M83(AS)-5, appendix B. The 1983 derived adjustment factor for this report is 0.9698.

[4]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports (TSUSA number 652.6500, metal crowns and bottle caps).

[5]Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.

[6]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

[7]Home canning data are excluded from manufacturers' shipments to avoid disclosures of individual company operations.

Table 4. SHIPMENTS, EXPORTS, AND IMPORTS OF SELECTED CLOSURES FOR CONTAINERS, BY TYPE: SECOND QUARTER 1986

(Quantity in millions; value in thousands of dollars)

Product code	Product description	Manufacturers' shipments[1]		Exports of domestic merchandise		Percent exports to manufacturers' shipments (value)	Imports for consumption[1,4]		Apparent consumption[6] (value)	Percent imports to apparent consumption (value)
		Quantity	Value (f.o.b. plant)	Value at port[1,2]	Estimated producers' value[3]		Quantity	Value[5]		
	Metal commercial closures and home canning closures	15,223	180,093	5,973	5,792	3.2	1,271	4,528	178,829	2.5
34661 03, 43,44	Closures for glass containers except crowns and child-resistant types									
34661 82	Home canning closures[7]									
34661 47, 56,59	Closures for metal cans and metal tubes; closures for plastic containers, vials, and tubes; child-resistant closures	3,966	109,859	6,386	5,223	3.5	1,271	4,528	178,829	2.5
34661 83	Metal closures other than crowns for pressure containers	3,906	38,842							
34662 16, 17,21,22	Crowns for pressure containers	7,351	31,392	587	569	1.8				

See footnotes at end of table 3.

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M 34/H(86)-3

CURRENT INDUSTRIAL REPORTS

Closures for Containers

U.S. Department of Commerce
BUREAU OF THE CENSUS

THIRD QUARTER 1986

MQ34H(86)-3
Issued January 1987

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of closures for containers. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information appears in the first quarter publication MQ34H(86)-1, issued June 1986.

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Table 1. PRODUCERS' QUANTITY OF SHIPMENTS OF CLOSURES, BY TYPE OF MATERIAL: 1986 AND 1985

(Data in thousands of units unless otherwise indicated)

Quarter and year	Metal and metal composite[1]	Plastic	Plastic child resistant	Closures for pressure containers (1,000 gross)		
				Metal crowns	Other metal	Plastic
1986						
Third quarter	4,289,853	5,328,323	794,955	43,616	23,100	5,399
Second quarter	3,755,646	5,323,808	794,298	50,704	27,221	5,177
First quarter	3,945,994	5,350,993	688,975	46,089	21,167	3,907
1985[2]						
Fourth quarter	3,748,773	5,248,831	614,578	35,517	18,647	3,689
Third quarter	4,286,861	5,264,220	621,501	47,388	26,314	5,871
Second quarter	3,831,366	5,544,738	694,716	48,920	26,182	4,187
First quarter	3,774,601	5,607,400	682,761	45,016	21,683	2,891

[1] Excludes home canning closures.
[2] In order to be consistent with the current year, monthly figures prior to 1986 were added to show quarterly data.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ed Coan (301) 763-2528.
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C 3.158:

Table 2. SHIPMENTS OF CLOSURES FOR CONTAINERS, BY TYPE

(Value in thousands of dollars)

Product code	Product description	Unit of measure	Number of companies	Third quarter 1986		Second quarter 1986	
				Quantity	Value	Quantity	Value
34661 01	Metal and metal composite closures	M units	25	4,289,853	120,380	3,755,646	103,314
	By container type:						
	Glass	do	21	3,668,357	(X)	3,120,285	(X)
	Metal, including metal tubes	do	7	362,261	(X)	376,033	(X)
	Plastic, including vials and tubes	do	9	259,235	(X)	259,328	(X)
	By function:						
	Vacuum (continuous thread and lug type)	do	6	2,752,815	(X)	2,196,592	(X)
	Nonvacuum	do	(NA)	1,537,038	(X)	1,559,054	(X)
	By type of connection:						
	Lug type	do	5	152,072	(X)	151,934	(X)
	Continuous thread (CT)	do	22	1,384,966	(X)	1,407,120	(X)
	Not specified by type	do	(NA)	-	(X)	-	(X)
	By end use:						
	Food	do	7	384,003	(X)	357,698	(X)
	Toiletry and cosmetics	do	7	75,310	(X)	86,358	(X)
	Medicinal and health	do	7	274,309	(X)	271,788	(X)
	Distilled spirits and wine	do	8	322,326	(X)	374,613	(X)
	Chemicals	do	6	72,853	(X)	48,227	(X)
	Other	do	(NA)	408,237	(X)	420,370	(X)
	By size:						
	38mm and smaller	do	17	917,189	(X)	947,689	(X)
	Over 38mm excluding styles 445, 450, and 460	do	13	288,388	(X)	276,993	(X)
	Styles 445, 450, and 460	do	6	163,432	(X)	152,692	(X)
	Not specified by size	do	(NA)	168,029	(X)	181,680	(X)
	By type of metal:						
34661 12	Aluminum	do	8	558,804	(X)	608,590	(X)
34661 32	Tin mill	do	14	975,821	(X)	946,603	(X)
	Not specified by metal	do	(NA)	2,413	(X)	3,861	(X)
30790 60	Plastic closures	do	38	5,328,323	136,889	5,323,808	119,050
	By container type:						
	Glass	do	15	985,531	(X)	1,150,442	(X)
	Metal, including metal tubes	do	8	622,987	(X)	664,615	(X)
	Plastic, including vials and tubes	do	31	3,719,805	(X)	3,508,751	(X)
	Not specified by type	do	(NA)	-	(X)	-	(X)
	By function:						
	Shakers, spouts, and dispenser tops, except dispenser fitments and overcaps	do	16	1,011,094	(X)	890,645	(X)
	All other closures	do	(NA)	4,317,229	(X)	4,433,163	(X)
	By end use:						
	Food	do	21	1,216,474	(X)	1,267,545	(X)
	Toiletry and cosmetics	do	25	1,576,874	(X)	1,399,102	(X)
	Medicinal and health:						
	Prescription drugs	do	7	53,178	(X)	56,636	(X)
	All other, including nonprescription drugs	do	13	374,685	(X)	391,735	(X)
	Distilled spirits and wine	do	7	253,278	(X)	260,191	(X)
	Chemicals	do	11	666,819	(X)	594,398	(X)
	Other, including where end use is unknown	do	(NA)	1,187,015	(X)	984,351	(X)
	By type of plastic:						
30790 67	Thermosetting	do	10	267,170	(X)	277,008	(X)
30790 68	Thermoplastic	do	31	4,872,600	(X)	4,838,938	(X)
	Not specified by plastic	do	(NA)	188,553	(X)	207,862	(X)
30790 69	Plastic child-resistant closures	do	16	794,955	25,849	794,298	26,473
	Prescription drugs	do	7	154,202	(X)	139,052	(X)
	All other, including nonprescription drugs	do	14	640,753	(X)	655,246	(X)
	Not specified by end use	do	(NA)	-	(X)	-	(X)
34661 82	Metal and metal composite home canning closures	M gross	2	(D)	(D)	(D)	(D)
	Closures for glass, plastic, or metal pressure containers	do	10	72,115	65,562	83,102	76,276
	Metal crowns (convenience and conventional type)	do	(NA)	43,616	26,775	50,704	30,745
34662 15	Soft drink	do	5	16,805	9,888	19,925	12,064
34662 25	Beer and all other	do	5	26,811	16,887	30,779	18,681
	All other metal closures, including roll-ons:						
	Metal and metal composite	do	(NA)	23,100	31,997	27,221	38,899
34661 84	Soft drink	do	5	21,635	29,944	25,315	36,186
34661 85	Beer and all other	do	5	1,465	2,053	1,906	2,713
30790 70	Plastic	do	4	5,399	6,790	5,177	6,632

Note: Detail may not add to total due to independent rounding.

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

Table 3. SHIPMENTS, EXPORTS, AND IMPORTS OF SELECTED CLOSURES FOR CONTAINERS, BY TYPE

(Value in thousands of dollars)

Production description	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise		Percent exports to manufacturers' shipments (value)	Imports for consumption[3] (value)[4]	Apparent consumption[5] (value)	Percent imports to apparent consumption (value)
		Value at port[1]	Estimated producers' value[2]				
THIRD QUARTER							
Metal commercial closures[6]	177,099	8,343	8,091	4.6	3,621	172,629	2.1
Metal and metal composite closures	120,380	7,768	7,533	5.1	3,621	172,629	2.1
Metal closures other than crowns for pressure containers	26,775						
Crowns for pressure containers	31,997	575	558	1.7			
SECOND QUARTER							
Metal commercial closures[6]	172,958	5,973	5,792	3.3	4,528	171,694	2.6
Metal and metal composite closures	103,314	5,386	5,223	3.7	4,528	171,694	2.6
Metal closures other than crowns for pressure containers	38,899						
Crowns for pressure containers	30,745	587	569	1.8			

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 5 in the first quarter 1986 report, MQ34H(86)-1, issued June 1986.

[1]Source: Bureau of the Census report EM 546, U.S. Exports (Schedule B export numbers 652.6510, crowns for pressure containers and 652.6530, other metal closures.

[2]These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the value to an approximation of the producers' value of the exported goods. Current adjustment factors are based on data for 1983 which are published in Origin of Exports of Manufactured Products, M83(AS)-5, appendix B. The 1983 derived adjustment factor for this report is 0.9698.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports (TSUSA number 652.6500, metal crowns and bottle caps).

[4]Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

[6]Home canning data are excluded from manufacturers' shipments to avoid disclosures of individual company operations.

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MQ 34 H(86)-4

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Closures for Containers

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FOURTH QUARTER 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

MQ34H(86)-4
Issued April 1987

The statistics in this publication are based on a survey of manufacturers and represent total U.S. shipments of closures for containers. Estimates are included for companies whose reports were not received in time for tabulation. A description of the survey methodology and related information appears in the first quarter publication MQ34H(86)-1, issued June 1986.

Table 1. PRODUCERS' QUANTITY OF SHIPMENTS OF CLOSURES, BY TYPE OF MATERIAL: 1986 AND 1985

(Data in thousands of units unless otherwise indicated)

Quarter and year	Metal and metal composite[1]	Plastic	Plastic child resistant	Closures for pressure containers (1,000 gross)		
				Metal crowns	Other metal	Plastic
1986						
Total	15,884,533	21,554,358	3,109,469	179,583	86,771	19,762
Fourth quarter	3,835,720	5,486,510	831,241	39,174	16,680	5,277
Third quarter	4,347,173	5,393,047	794,955	43,616	21,703	5,401
Second quarter	3,755,646	5,323,808	794,298	50,704	27,221	5,177
First quarter	3,945,994	5,350,993	688,975	46,089	21,167	3,907
1985[2]						
Total	15,641,601	21,665,189	2,613,556	176,841	92,826	16,638
Fourth quarter	3,748,773	5,248,831	614,578	35,517	18,647	3,689
Third quarter	4,286,861	5,264,220	621,501	47,388	26,314	5,871
Second quarter	3,831,366	5,544,738	694,716	48,920	26,182	4,187
First quarter	3,774,601	5,607,400	682,761	45,016	21,683	2,891

[1] Excludes home canning closures.
[2] In order to be consistent with the current year, monthly figures prior to 1986 were added to show quarterly data.

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Table 2. SHIPMENTS OF CLOSURES FOR CONTAINERS, BY TYPE

(Value in thousands of dollars)

Product code	Product description	Unit of measure	Number of companies	Fourth quarter 1986		Third quarter 1986	
				Quantity	Value	Quantity	Value
34661 01	Metal and metal composite closures	M units	25	3,835,720	101,617	4,347,173	120,380
	By container type:						
	Glass	do	19	3,206,414	(X)	3,698,307	(X)
	Metal, including metal tubes	do	7	375,413	(X)	389,631	(X)
	Plastic, including vials and tubes	do	8	253,893	(X)	259,235	(X)
	By function:						
	Vacuum (continuous thread and lug type)	do	6	2,501,226	(X)	2,808,692	(X)
	Nonvacuum	do	(NA)	1,334,494	(X)	1,538,481	(X)
	By type of connection:						
	Lug type	do	5	140,205	(X)	152,072	(X)
	Continuous thread (CT)	do	21	1,193,004	(X)	1,386,409	(X)
	Not specified by type	do	(NA)	1,285	(X)	-	(X)
	By end use:						
	Food	do	6	329,414	(X)	384,003	(X)
	Toiletry and cosmetics	do	8	67,086	(X)	75,310	(X)
	Medicinal and health	do	6	262,232	(X)	274,309	(X)
	Distilled spirits and wine	do	7	264,256	(X)	322,326	(X)
	Chemicals	do	6	55,473	(X)	72,853	(X)
	Other	do	12	355,933	(X)	409,680	(X)
	By size:						
	38mm and smaller	do	17	807,890	(X)	917,189	(X)
	Over 38mm excluding styles 445, 450, and 460	do	14	216,752	(X)	288,388	(X)
	Styles 445, 450, and 460	do	6	161,410	(X)	163,432	(X)
	Not specified by size	do	(NA)	148,442	(X)	169,472	(X)
	By type of metal:						
	Aluminum	do	8	441,921	(X)	558,804	(X)
	Tin mill	do	15	823,921	(X)	975,821	(X)
	Not specified by metal	do	(NA)	68,652	(X)	3,856	(X)
30790 60	Plastic closures	do	37	5,486,510	164,569	5,393,047	139,501
	By container type:						
	Glass	do	16	917,978	(X)	1,009,640	(X)
	Metal, including metal tubes	do	10	1,000,457	(X)	655,384	(X)
	Plastic, including vials and tubes	do	31	3,568,075	(X)	3,728,023	(X)
	Not specified by type	do	(NA)	-	(X)	-	(X)
	By function:						
	Shakers, spouts, and dispenser tops, except dispenser fitments and overcaps	do	18	1,309,276	(X)	1,178,983	(X)
	All other closures	do	31	4,177,234	(X)	4,214,064	(X)
	By end use:						
	Food	do	23	1,252,506	(X)	1,335,730	(X)
	Toiletry and cosmetics	do	26	1,724,914	(X)	1,571,098	(X)
	Medicinal and health:						
	Prescription drugs	do	7	47,884	(X)	52,812	(X)
	All other, including nonprescription drugs	do	14	311,367	(X)	372,390	(X)
	Distilled spirits and wine	do	8	266,349	(X)	251,447	(X)
	Chemicals	do	13	526,247	(X)	621,303	(X)
	Other, including where end use is unknown	do	16	1,357,243	(X)	1,188,267	(X)
	By type of plastic:						
	Thermosetting	do	11	250,075	(X)	256,765	(X)
	Thermoplastic	do	34	5,236,435	(X)	5,136,282	(X)
	Not specified by plastic	do	(NA)	-	(X)	-	(X)
30790 69	Plastic child-resistant closures	do	16	831,241	26,187	794,955	25,849
	Prescription drugs	do	6	155,111	(X)	154,202	(X)
	All other, including nonprescription drugs	do	13	676,130	(X)	640,753	(X)
34661 82	Metal and metal composite home canning closures	M gross	3	(D)	(D)	(D)	(D)
	Closures for glass, plastic, or metal pressure containers	do	(NA)	61,131	53,262	70,720	63,227
	Metal crowns (convenience and conventional type)	do	(NA)	39,174	23,083	43,616	26,775
34662 15	Soft drink	do	6	13,180	7,297	16,805	9,888
34662 25	Beer and all other	do	5	25,994	15,786	26,811	16,887
	All other metal closures, including roll-ons	do	(NA)	16,680	23,640	21,703	29,660
34661 84	Soft drink	do	5	15,480	21,988	20,257	27,634
34661 85	Beer and all other	do	5	1,200	1,652	1,446	2,026
30790 70	Plastic	do	4	5,277	6,539	5,401	6,792

Note: Detail may not add to total due to independent rounding.

-Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

Table 3. SHIPMENTS, EXPORTS, AND IMPORTS OF SELECTED CLOSURES FOR CONTAINERS, BY TYPE

(Value in thousands of dollars)

Production description	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise		Percent exports to manufacturers' shipments (value)	Imports for consumption[3] (value)[4]	Apparent consumption[5] (value)	Percent imports to apparent consumption (value)
		Value at port[1]	Estimated producers' value[2]				
FOURTH QUARTER							
Metal commercial closures[6]	148,340	5,534	5,367	3.6	4,017	146,990	2.7
Metal and metal composite closures	101,617	5,243	5,085	4.0	4,017	146,990	2.7
Metal closures other than crowns for pressure containers	23,640						
Crowns for pressure containers	23,083	291	282	1.2			
THIRD QUARTER							
Metal commercial closures[6]	176,815	8,343	8,091	4.6	3,621	172,345	2.1
Metal and metal composite closures	120,380	7,768	7,533	5.0	3,621	172,345	2.1
Metal closures other than crowns for pressure containers	29,660						
Crowns for pressure containers	26,775	575	558	2.1			

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 5 in the first quarter 1986 report, MQ34H(86)-1, issued June 1986.

[1]Source: Bureau of the Census report EM 546, U.S. Exports.

[2]These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the value to an approximation of the producers' value of the exported goods. Current adjustment factors are based on data for 1983 which are published in Origin of Exports of Manufactured Products, M83(AS)-5, appendix B. The 1983 derived adjustment factor for this report is 0.9698.

[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.

[4]Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.

[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

[6]Home canning data are excluded from manufacturers' shipments to avoid disclosures of individual company operations.

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SUMMARY FOR 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS

MQ34H(86)-5
Issued July 1987

SUMMARY OF FINDINGS

Shipments of metal and metal composite closures were 14,895 million units in 1986 compared to 15,642 million units in 1985, a 5-percent decrease. Plastic closures shipments were 22,095 million units in 1986, a 2-percent increase over the preceeding year's figure of 21,665 million units. Plastic child resistant closures showed a 20-percent increase with 3,148 million units shipped in 1986 versus 2,614 million units shipped in 1985. 301 million gross of closures for pressure containers were shipped in 1986, 7 percent above the 282 million gross shipped in 1985.

Table 1. PRODUCERS' QUANTITY OF SHIPMENTS OF CLOSURES, BY TYPE OF MATERIAL: 1986 AND 1985

(Data in thousands of units unless otherwise indicated)

Quarter and year	Metal and metal composite[1]	Plastic	Plastic child resistant	Closures for pressure containers (1,000 gross)		
				Metal crowns	Other metal	Plastic
1986						
Total	14,895,327	22,095,408	3,147,804	167,204	108,360	25,496
Fourth quarter	3,566,340	5,697,557	866,753	39,109	20,587	6,304
Third quarter	4,020,105	5,502,039	816,022	39,774	28,567	6,998
Second quarter	3,666,750	5,398,320	780,157	45,760	32,446	6,775
First quarter	3,642,132	5,497,492	684,872	42,561	26,760	5,419
1985[2]						
Total	15,641,601	21,665 189	2,613,556	176,841	88,074	16,638
Fourth quarter	3,748,773	5,248,831	614,578	35,517	17,459	3,689
Third quarter	4,286,861	5,264,220	621,501	47,388	25,126	5,871
Second quarter	3,831,366	5,544,738	694,716	48,920	24,994	4,187
First quarter	3,774,601	5,607,400	682,761	45,016	20,495	2,891

[1] Excludes home canning closures.
[2] In order to be consistent with the current year, monthly figures prior to 1986 were added to show quarterly data.

Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Ed Coan, (301) 763-5547.
For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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Table 2A. QUANTITY OF SHIPMENTS OF CLOSURES FOR CONTAINERS: 1986

Product code	Product description	Unit of measure	Number of companies	Total	First quarter	Second quarter	Third quarter	Fourth quarter
34661 01	Metal and metal composite closures	M units.	26	14,895,327	3,642,132	3,666,750	4,020,105	3,566,340
	By container type:							
	Glass	..do....	19	13,332,135	3,245,945	3,265,178	3,632,523	3,188,489
	Metal, including metal tubes	..do....	7	342,929	89,219	95,528	86,200	71,982
	Plastic, including vials and tubes	..do....	10	1,049,139	261,687	260,763	256,101	270,588
	Not specified by container	..do....	(NA)	171,124	45,281	45,281	45,281	35,281
	By function:							
	Vacuum (continuous thread and lug type)	..do....	6	9,619,278	2,299,079	2,296,834	2,663,228	2,360,137
	Nonvacuum	..do....	(NA)	5,276,049	1,343,053	1,369,916	1,356,877	1,206,203
	By type of connection:							
	Lug type	..do....	4	582,309	140,043	149,478	150,704	142,084
	Continuous thread (CT)	..do....	22	4,693,740	1,203,010	1,220,438	1,206,173	1,064,119
	By end use:							
	Food	..do....	7	1,465,912	387,313	357,698	384,003	336,898
	Toiletry and cosmetics	..do....	8	310,756	74,957	86,358	75,794	73,647
	Medicinal and health	..do....	7	980,486	268,794	239,295	241,324	231,073
	Distilled spirits and wine	..do....	8	1,239,039	294,360	368,330	316,811	259,538
	Chemicals	..do....	6	266,499	63,558	62,006	72,675	68,260
	Other	..do....	12	1,013,357	254,071	256,229	266,270	236,787
	By size:							
	38mm and smaller	..do....	19	3,502,622	904,027	921,947	892,708	783,940
	Over 38mm excluding styles 445, 450, and 460	..do....	15	1,005,449	259,366	254,653	259,514	231,916
	Styles 445, 450, and 460	..do....	6	616,164	138,630	152,692	163,432	161,410
	Not specified by size	..do....	(NA)	151,814	41,030	40,624	41,223	28,937
	By type of metal:							
	Aluminua	..do....	10	2,197,619	581,519	608,590	558,804	448,706
	Tin mill	..do....	16	3,078,430	761,534	761,326	798,073	757,497
30790 60	Plastic closures	..do....	47	22,095,408	5,497,492	5,398,320	5,502,039	5,697,557
	By container type:							
	Glass	..do....	17	4,105,222	1,081,270	1,083,145	1,002,361	938,446
	Metal, including metal tubes	..do....	10	2,899,767	638,918	674,502	637,195	949,152
	Plastic, including vials and tubes	..do....	40	15,090,419	3,777,304	3,640,673	3,862,483	3,809,959
	By function:							
	Shakers, spouts, and dispenser tops	..do....	19	4,485,745	1,144,474	979,558	1,138,753	1,222,960
	All other closures	..do....	39	17,609,663	4,353,018	4,418,762	4,363,286	4,474,597
	By end use:							
	Food	..do....	26	5,544,580	1,356,611	1,340,074	1,451,564	1,396,331
	Toiletry and cosmetics	..do....	32	5,832,746	1,426,891	1,342,516	1,480,120	1,583,219
	Medicinal and heath:							
	Prescription drugs	..do....	10	228,175	59,811	64,114	51,205	53,045
	All other, including nonprescription drugs	..do....	15	1,211,792	301,600	324,372	308,357	277,463
	Distilled spirits and wine	..do....	7	966,367	246,991	230,097	228,632	260,647
	Chemicals	..do....	14	2,184,242	542,067	560,895	581,586	499,694
	Other, including where end use is unknown	..do....	23	6,127,506	1,563,521	1,536,252	1,400,575	1,627,158
	By type of plastic:							
	Thermosetting	..do....	10	1,006,312	252,100	268,304	245,430	240,478
	Thermoplastic	..do....	43	20,924,906	5,192,777	5,076,380	5,228,140	5,427,609
	Not specified by plastic	..do....	(NA)	164,190	52,615	53,636	28,469	29,470
30790 69	Plastic child-resistant closures	..do....	22	3,147,804	684,872	780,157	816,022	866,753
	Prescription drugs	..do....	10	650,915	153,888	129,965	178,412	188,650
	All other, including nonprescription drugs	..do....	18	2,496,889	530,984	650,192	637,610	678,103
34661 82	Metal and metal composite home canning closures	M gross.	3	(D)	(D)	(D)	(D)	(D)
	Closures for pressure containers made of glass, plastic, or metal	..do....	12	301,060	74,740	84,981	75,339	66,000
	Metal crowns (convenience and conventional type)	..do....	(NA)	167,204	42,561	45,760	39,774	39,109
34662 15	Soft drink	..do....	6	58,636	14,238	16,384	13,916	14,098
34662 25	Beer and all other	..do....	5	108,568	28,323	29,376	25,858	25,011
	Other metal and metal composite, including roll-ons	..do....	(NA)	108,360	26,760	32,446	28,567	20,587
34661 84	Soft drink	..do....	5	84,265	20,772	26,007	22,563	14,923
34661 85	Beer and all other	..do....	6	24,095	5,988	6,439	6,004	5,664
30790 70	Plastic	..do....	5	25,496	5,419	6,775	6,998	6,304

(D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

Table 2B. QUANTITY OF SHIPMENTS OF CLOSURES FOR CONTAINERS: 1985

Product code	Product description	Unit of measure	Number of companies	Total	First quarter	Second quarter	Third quarter	Fourth quarter
34661 01	Metal and metal composite closures	M units.	25	15,641,601	3,774,601	3,831,366	4,286,861	3,748,773
	By container type:							
	Glass	..do....	20	13,477,727	3,163,557	3,273,364	3,784,045	3,256,761
	Metal, including metal tubes	..do....	8	1,135,698	305,407	289,703	262,558	278,030
	Plastic, including vials and tubes	..do....	9	1,028,176	305,637	268,299	240,258	213,982
	By function:							
	Vacuum (continuous thread and lug type)	..do....	6	10,064,427	2,268,741	2,434,211	2,878,229	2,483,246
	Nonvacuum	..do....	(NA)	5,577,174	1,505,860	1,377,155	1,408,632	1,285,527
	By type of connection:							
	Lug type	..do....	5	655,331	175,084	160,586	173,195	146,466
	Continuous thread (CT)	..do....	22	4,921,843	1,330,776	1,216,569	1,235,437	1,139,061
	By end use:							
	Food	..do....	8	1,511,851	421,811	368,263	368,496	353,281
	Toiletry and cosmetics	..do....	7	304,819	80,751	84,410	62,601	77,057
	Medicinal and health	..do....	8	1,002,692	287,859	248,391	244,684	221,758
	Distilled spirits and wine	..do....	8	1,007,301	246,433	235,708	286,507	238,653
	Chemicals	..do....	6	207,337	65,854	54,575	42,716	44,192
	Other	..do....	(NA)	1,543,174	403,152	385,808	403,628	350,586
	By size:							
	38mm and smaller	..do....	18	3,238,236	842,271	801,507	837,309	737,149
	Over 38mm excluding styles 445, 450, and 460	..do....	13	1,138,516	346,002	283,363	257,351	251,800
	Styles 445, 450, and 460	..do....	7	1,110,311	303,188	274,522	263,939	268,662
	Not specified by size	..do....	(NA)	90,111	14,399	17,763	30,033	27,916
	By type of metal:							
	Aluminum	..do....	8	2,029,268	510,620	500,589	551,854	466,205
	Tin mill	..do....	14	3,524,762	995,240	873,115	848,599	807,808
	Not specified by metal	..do....	(NA)	23,144	-	3,451	8,179	11,514
30790 60	Plastic closures	..do....	42	21,665,189	5,607,400	5,544,738	5,264,220	5,248,831
	By container type:							
	Glass	..do....	16	4,321,443	1,138,772	1,181,795	1,034,359	966,517
	Metal, including metal tubes	..do....	10	2,434,750	646,712	622,100	598,634	567,284
	Plastic, including vials and tubes	..do....	34	14,544,196	3,740,973	3,646,656	3,538,466	3,618,101
	Not specified by type	..do....	(NA)	364,800	80,943	94,187	92,741	96,929
	By function:							
	Shakers, spouts, and dispenser tops	..do....	15	4,738,604	1,137,539	1,168,314	1,146,173	1,286,578
	All other closures	..do....	(NA)	16,926,585	4,469,861	4,376,424	4,118,047	3,962,253
	By end use:							
	Food	..do....	22	6,202,386	1,620,681	1,660,994	1,488,865	1,431,846
	Toiletry and cosmetics	..do....	26	6,447,531	1,782,706	1,633,258	1,491,505	1,540,062
	Medicinal and heath:							
	Prescription drugs	..do....	6	372,036	108,593	95,577	84,932	82,934
	All other, including nonprescription drugs	..do....	12	1,149,869	292,308	299,219	292,018	266,324
	Distilled spirits and wine	..do....	7	1,402,613	354,605	366,066	326,915	355,027
	Chemicals	..do....	11	1,849,453	385,358	400,680	505,036	558,379
	Other, including where end use is unknown	..do....	(NA)	4,241,301	1,063,149	1,088,944	1,074,949	1,014,259
	By type of plastic:							
	Thermosetting	..do....	11	1,049,561	284,500	264,239	239,094	261,728
	Thermoplastic	..do....	35	19,561,213	5,082,710	5,011,760	4,762,074	4,704,669
	Not specified by plastic	..do....	(NA)	1,054,415	240,190	268,739	263,052	282,434
30790 69	Plastic child-resistant closures	..do....	18	2,613,556	682,761	694,716	621,501	614,578
	Prescription drugs	..do....	9	618,134	174,774	159,012	146,730	137,618
	All other, including nonprescription drugs	..do....	16	1,995,422	507,987	535,704	474,771	476,960
34661 82	Metal and metal composite home canning closures	M gross.	4	(D)	(D)	(D)	(D)	(D)
	Closures for pressure containers made of glass, plastic, or metal	..do....	(NA)	281,353	68,402	78,101	78,385	56,665
	Metal crowns (convenience and conventional type)	..do....	(NA)	176,841	45,016	48,920	47,388	35,517
34662 15	Soft drink	..do....	5	64,900	16,816	16,751	17,865	13,468
34662 25	Beer and all other	..do....	6	111,941	28,200	32,169	29,523	22,049
	Other closures, including roll-ons	..do....	(NA)	88,074	20,495	24,994	25,126	17,459
34661 84	Soft drink	..do....	4	82,463	19,159	23,203	23,682	16,419
34661 85	Beer and all other	..do....	4	5,611	1,336	1,791	1,444	1,040
30790 70	Plastic	..do....	5	16,638	2,891	4,187	5,871	3,689

- Represents zero. (D) Data withheld to avoid disclosing figures for individual companies. (NA) Not available.

Table 3. VALUE OF SHIPMENTS OF CLOSURES FOR CONTAINERS: 1986 and 1985

Product code	Product description	Total	First quarter	Second quarter	Third quarter	Fourth quarter
	1986					
34661 01	Metal and metal composite closures	413,464	98,580	102,370	113,736	98,778
30790 60	Plastic closures	566,226	121,416	127,187	149,682	167,941
30790 69	Plastic child-resistant closures	104,019	25,209	25,124	26,399	27,287
34661 82	Metal and metal composite home canning closures	(D)	(D)	(D)	(D)	(D)
	Closures for pressure containers made of glass, plastic, or metal	262,315	64,604	73,843	65,641	58,227
	Metal crowns (convenience and conventional type)	104,404	26,359	27,708	24,567	25,770
34662 15	Soft drink	37,466	8,692	9,907	8,483	10,384
34662 25	Beer and all other	66,938	17,667	17,801	16,084	15,386
	Other metal and metal composite, including roll-ons	123,218	30,493	36,596	32,262	23,867
34661 84	Soft drink	89,751	22,092	27,646	23,961	16,052
34661 85	Beer and all other	33,467	8,401	8,950	8,301	7,815
30790 70	Plastic	34,693	7,752	9,539	8,812	8,590
34661 00	Metal and metal composite closures n.s.k.[1]	72,004	17,281	18,721	19,441	16,561
	1985					
34661 01	Metal and metal composite closures	451,180	108,585	110,265	121,697	110,633
30790 60	Plastic closures	445,824	111,891	112,879	110,340	110,714
30790 69	Plastic child-resistant closures	94,262	25,959	25,315	22,137	20,851
34661 82	Metal and metal composite home canning closures	(D)	(D)	(D)	(D)	(D)
	Closures for pressure containers made of glass, plastic, or metal	273,525	66,158	75,731	77,079	54,557
	Metal crowns (convenience and conventional type)	108,416	28,342	29,363	28,753	21,958
34662 15	Soft drink	38,236	9,922	9,804	10,205	8,305
34662 25	Beer and all other	70,180	18,420	19,559	18,548	13,653
	Other metal and metal composite, including roll-ons	136,405	32,622	39,196	38,289	26,298
34661 84	Soft drink	127,542	30,437	36,319	36,043	24,743
34661 85	Beer and all other	8,863	2,185	2,877	2,246	1,555
30790 70	Plastic	28,704	5,194	7,172	10,037	6,301
34661 00	Metal and metal composite closures n.s.k.[1]	78,833	18,920	20,496	21,285	18,132

(D) Data withheld to avoid disclosing figures for individual companies. N.s.k. Not specified by kind.

[1] An estimate based on the trend of shipments of products of product code 34661 benchmarked to the 1982 Census of Manufactures.

Table 4. COMPARISON OF VALUES OF SHIPMENTS OF CLOSURES FOR CONTAINERS, AS REPORTED IN THE MQ34H, THE 1985 ANNUAL SURVEY OF MANUFACTURES, AND THE 1982 CENSUS OF MANUFACTURES

(Value in thousands of dollars)

Product code	Product description	1985			1982	
			Annual Survey of Manufactures			
		MQ34H	Value	Standard error of estimates[1]	M34H	Census of Manufactures
3466-	Crowns and closures	774.8	817.9	3	767.7	790.2
34661	Metal commercial closures, except crowns[2]	587.6	662.1	4	551.9	627.1
34661 00	Metal closures, except crowns n.s.k.[3]	78.8			71.4	
34660 00	Crowns and closures n.s.k., typically for establishments with 5 employees or more	(4)	17.0	1	(4)	4.4
34660 02	Crowns and closures n.s.k., typically for establishments with less than 5 employees					13.7
34662 --	Metal crowns	108.4	138.8	1	144.4	145.0

Note: In the 1982 Census of Manufactures, shipments data for establishments of small companies, typically those with up to 20 employees were estimated from administrative records data rather than collected on census questionnaires. These shipments are included in product code 34660 02. Products not adequately identified by detail product were coded to the appropriate product class (five digits) followed by "00," or in some cases to the appropriate industry (four digits) followed by "000."

N.s.k. Not specified by kind.

[1] The annual survey of manufactures percentage standard errors shown are the approximate relative errors of the estimates of level. A more detailed description of the standard error of estimate is given in the introduction of the annual survey of manufactures, Value of Product Shipments, MB5(AS)-2, under "Qualifications of the Data."

[2] Data withheld for home canning closures.

[3] An estimate based on the trend of shipments of products of product code 34661 benchmarked to the 1982 Census of Manufactures.

[4] Detail data available only for the census of manufactures. A substantial portion of these data are derived from administrative records. See note above. In the annual survey of manufactures, these values are included in the primary products total.

Table 5. SHIPMENTS, EXPORTS, AND IMPORTS OF SELECTED CLOSURES FOR CONTAINERS, BY TYPE: 1986 and 1985

(Value in thousands of dollars)

Production description	Manufacturers' shipments (value f.o.b. plant)	Exports of domestic merchandise		Percent exports to manufacturers' shipments	Imports for consumption[3,4]	Apparent consumption[5]	Percent imports to apparent consumption
		Value at port[1]	Estimated producers' value[2]				
1986							
Crowns and closures	713,090	25,249	24,485	3.4	16,202	704,807	2.3
Metal commercial closures, except crowns[6]	536,682	23,314	22,609	3.7	16,202	704,807	2.3
Metal closures, except crowns n.s.k.	72,004						
Metal crowns	104,404	1,935	1,876	1.8			
1985							
Crowns and closures	774,834	24,849	24,098	3.1	12,984	763,720	1.7
Metal commercial closures, except crowns[6]	587,585	22,965	22,271	3.3	12,984	763,720	1.7
Metal closures, except crowns n.s.k.	78,833						
Metal crowns	108,416	1,884	1,827	1.7			

Note: For comparison of Standard Industrial Classification (SIC)-based product codes, Schedule B export numbers, and TSUSA import numbers, see table 6.

N.s.k. Not specified by kind.

[1]Source: Bureau of the Census report EM 546, U.S. Exports.
[2]These values were derived by use of adjustment factors to exclude freight, insurance, and other charges incurred in moving goods to the port of export. This adjustment is made to convert the value to an approximation of the producers' value of the exported goods. Current adjustment factors are based on data for 1983 which are published in Origin of Exports of Manufactured Products, MB3(AS)-5, appendix B. The 1983 derived adjustment factor for this report is 0.9698.
[3]Source: Bureau of the Census report IM 146, U.S. Imports for Consumption.
[4]Represents the c.i.f. (cost, insurance, and freight) value at the first port of entry in the United States plus U.S. import duties.
[5]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.
[6]Data withheld for home canning closures.

Table 6. COMPARISON OF STANDARD INDUSTRIAL CLASSIFICATION-BASED PRODUCT CODES WITH SCHEDULE B EXPORT NUMBERS AND TSUSA IMPORT NUMBERS: 1986

Product code	Product description	Export number	Product description	Import number	Product description
	Metal commercial closures:		Crown works and bottle caps, of base metal:		
34661 01	Metal and metal composite closures	652.6530	Other	652.6500	Crown corks and bottle caps, of base metal
34661 84 34661 85	Metal closures other than crowns for pressure containers				
34662 15 34662 25	Crowns for pressure containers	652.6510	Crowns		

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers manufacturers of closures for containers and crowns for pressure containers. Both commercial and home canning closures are included. Spray valves, seals, dispenser tops, aerosol valves, and other nonstandard closures are excluded.

Survey Methodology. The statistics in this publication were collected by mail on Bureau of the Census quarterly Form MQ34H, Closures for Containers. The panel for this survey consists of all known producers of the products covered, approximately 70 companies.

Participation in the quarterly survey is voluntary. However, annual reports are required from those companies that do not report quarterly. The annual summary includes revisions of quarterly data originally estimated (see "Reliability of Data" below) for companies which only report annually.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which failed the edit. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data. Data may be revised as the result of corrected figures received from respondents, annual reports received for which imputations were originally made as described above, or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

Revisions may include changes to prior period data resulting from reconciliation of the results of this survey with the 1985 Annual Survey of Manufactures to correct differences in reported data between the two series and to identify and verify new establishments included in the scope of this survey. Table 4 presents a comparison of data from the two series by census product class following the reconciliation.

Adjustment for Price Change. All dollar figures included in this publication are in current dollars; i.e., they have not been adjusted for price change.

EXPLANATION OF TERMS

Shipments. Includes all quantities physically shipped during the month, whether shipped for commercial sale or for own use, or shipped to subsidiary, parent, or other affiliated companies. Products bought and resold without further manufacture are excluded.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output*—Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

- *Exports*—Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

  Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- *Imports*—Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication.

Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for indivildual import shipments valued at not more than $1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

HISTORICAL NOTE

Data on closures for containers have been collected by the Bureau of the Census since 1957. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

Office	Telephone
Atlanta, Georgia	(404) 347-2271
Boston, Massachusetts	(617) 223-2327
Charlotte, North Carolina	(704) 371-6142
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 767-0621
Denver, Colorado	(303) 236-2200
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 374-4601
Los Angeles, California	(213) 209-6616
New York, New York	(212) 264-3860
Philadelphia, Pennsylvania	(215) 596-4920
Seattle, Washington	(206) 442-7828

Historical data are also available on microfiche. For further information, contact the Bureau of the Census, Data User Services Division, (301) 763-4100.

RELATED REPORTS

A quarterly Current Industrial Report also is published in this series. The Bureau of the Census publishes the following related reports:

Series	Frequency	Title
Current Industrial Reports		
M32G	Monthly	*Glass Containers*
MA30E	Annual	*Plastics Bottles*
Other Industry Reports		
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(AS)	Annually	Annual Survey of Manufactures (ASM)
(MC)	Quinquennially	Census of Manufactures
Foreign Trade Reports		
EM 546 FT 446	Monthly Annually	*U.S. Exports—Schedule B—Commodity by Country*
IM 146 FT 246	Monthly Annually	*U.S. Imports for Consumption—TSUSA—Commodity by Country*

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report MQ34H	Ed Coan	(301) 763-5547

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